

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 03-128062

(43)Date of publication of application : 31.05.1991

(51)Int.Cl.

A61L 27/00
A61K 6/033
A61K 6/06
C04B 12/02
C04B 28/34
// (C04B 28/34
C04B 22:14)
C04B 22:10
C04B 24:00

(21)Application number : 01-266235

(71)Applicant : NATL INST FOR RES IN INORG MATER
MITSUBISHI MATERIALS CORP

(22)Date of filing : 16.10.1989

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(54) WATER-CURABLE TYPE CALCIUM PHOSPHATE CEMENT COMPOSITION

(57)Abstract:

PURPOSE: To permit the curing within the time for practical use only by the kneading with water and to increase strength by reducing porosity by mixing α -type tertiary calcium phosphate which possesses the self curing faculty and a slight quantity of secondary calcium phosphate hydrate which is slightly acidic, in a specific Ca/P molar ratio.

CONSTITUTION: α -type tertiary calcium phosphate and secondary calcium phosphate di-hydrate are mixed and formed to the mixed powder having a Ca/P molar ratio of 1.470-1.498, and the cement composition is prepared from the mixed powder as main component. Accordingly, this material possesses high strength and small porosity, and can be effectively used for the medical cement for filling the defective bone part and the bone cavity part, and in particular, can be suitably used for the dental cement such as tooth root part filler.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]